CLEAN COPY OF THE ABSTRACT OF THE DISCLOSURE

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The open and closed metal receiving vessel serving to hold hot and to melt metals and to transport said liquid metals comprises an open and closed cavity which is subtended by thermally insulating materials and which is lined by an integral, exchangeable, single-layer or stratified textile, 3D-surface structure. The metal receiving vessel receives liquid and solid metal to hold it hot or to melt it and also serves to transport liquid metals. The heating to hold hot and to melt the metals is implemented by heater elements situated in the liquid metal and furthermore by heater elements configured underneath the 3D-surface structure, or by induction. The closed metal receiving vessel is equipped with an integral, displaceable furnace riser pipe on the furnace cover. When casting, the open metal receiving vessel may serve as a hot-holding, ladling and melting furnace and the closed metal receiving vessel may serve as a transport receptacle, all described operational criteria being met by exchanging the furnace cover or removing it and using the open and closed metal receiving vessel.